

Linear Systems replaces discontinued Siliconix SSTPAD20

The LSSSTPAD20 is a low leakage Pico-Amp Diode packaged in SOT-23

The LSSSTPAD20 extremely low-leakage diode provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. The LSSSTPAD20 features a leakage current of -20 pA and is well suited for use in applications such as input protection for operational

LSSSTPAD20 Benefits:

- Negligible Circuit Leakage Contribution
- Circuit "Transparent" Except to Shunt High-Frequency Spikes
- Simplicity of Operation

LSSSTPAD20 Applications:

- Op Amp Input Protection
- Multiplexer Overvoltage Protection

FEATURES

DIRECT REPLACEMENT FOR SILICONIX SSTPAD20

REVERSE BREAKDOWN VOLTAGE	$BV_R \geq -30V$
ULTRALOW LEAKAGE	$\leq 20 \text{ pA}$
REVERSE CAPACITANCE	$C_{rSS} \leq 2\text{pF}$

ABSOLUTE MAXIMUM RATINGS
@ 25°C (unless otherwise noted)

Maximum Temperatures

Storage Temperature	-65°C to +150°C
Operating Junction Temperature	-55°C to +135°C

Maximum Power Dissipation

Continuous Power Dissipation	350mW
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MAXIMUM CURRENT

Forward Current (Note 1)	10mA
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LSSSTPAD20 ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	CONDITIONS
BV_R	Reverse Breakdown Voltage	-35	--	--	V	$I_R = -1\mu A$
V_F	Forward Voltage	--	0.8	1.5	V	$I_F = 5\text{mA}$
C_{rSS}	Total Reverse Capacitance	--	1.5	2	pF	$V_R = -5V, f = 1\text{MHz}$
I_R	Maximum Reverse Leakage Current	--	--	-20	pA	$V_R = -20V$

Notes:

1. Absolute maximum ratings are limiting values above which LSSSTPAD20 serviceability may be impaired.

Available Packages:

LSSSTPAD20 in SOT-23
LSSSTPAD20 available as bare die

Please contact Micross for full package and die dimensions



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SOT-23 (Top View)

